

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 6, line 18 with:

As indicated above, $\bar{\mathbf{R}}$ is affected by the delay parameter Δ . Unless dictated by the designer, the delay parameter Δ , which can range between 0 and $(N_f + \nu - N_b - 1)$, is chosen to minimize the trace of $\mathbf{R}_{ee,min}^{ITC}$. Similarly, the index parameter m , which ranges between 0 and N_b , and which that affects Φ , is chosen to minimize the trace of $\mathbf{R}_{ee,min}^{ITC}$.

Please replace the two paragraphs that begin at page 8, line 16 with:

Following step 100, step 110 determines the matrices, \mathbf{R}_{nn} , \mathbf{R}_{xx} , \mathbf{R}_{xy} , and \mathbf{R}_{yy} . The matrix \mathbf{R}_{nn} is computed by first computing $\mathbf{n} = \mathbf{y} - \mathbf{H}\mathbf{x}$ and then computing the expected value $E[\mathbf{n}\mathbf{n}^*]$ -- see equation (8) above. The matrix \mathbf{R}_{xx} is computed from the known training sequences -- see equation (7) above -- (or is pre-computed and installed in processor 220). It may be noted that for uncorrelated inputs, $\mathbf{R}_{xx}=\mathbf{I}$. The matrices \mathbf{R}_{xy} and \mathbf{R}_{yy} are computed from the known training sequences and the received signal or directly from \mathbf{H} and \mathbf{R}_{nn} -- see equations (5) and (6) above.

Following step 110, step 120 computes $\mathbf{R}^\perp = \mathbf{R}_{xx} - \mathbf{R}_{xy}\mathbf{R}_{yy}^{-1}\mathbf{R}_{yx}$, and the sub-matrix $\bar{\mathbf{R}}$. From equation (10) it can be seen that $\bar{\mathbf{R}}$ is obtained by dropping the first $n_i\Delta$ rows and the last $n_i s$ rows of \mathbf{R}^\perp .

Please replace the paragraph beginning at page 9, line 4 with:

In accordance with the ONC approach, step 130 computes the matrix \mathbf{U} in a conventional manner, identifies the unit vectors \mathbf{e}_i , and thus obtains the matrix \mathbf{B} . ~~Step~~ As with the ITC approach, step 140 develops the coefficients of matrix \mathbf{W} in accordance with equation (12), and installs the developed coefficients within filter 210.